

Name: _____

at1121exam_practice: Radicals and Squares (v614)

Question 1

Simplify the radical expressions.

$$\sqrt{75}$$

$$\sqrt{28}$$

$$\sqrt{98}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x - 8)^2 + 4}{2} = 52$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 6x = 40$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 2x^2 - 12x + 26$$

Express the function in **vertex form** and identify the **location** of the vertex.